## Alaska-DLM Essential Elements and Instructional Examples for Mathematics

**Third Grade** 

Revised for Alaska July, 2014







The present publication was developed under grant 84.373X100001 from the U.S. Department of Education, Office of Special Education Programs. The views expressed herein are solely those of the author(s), and no official endorsement by the U.S. Department should be inferred.

## AK-DLM ESSENTIAL ELEMENTS AND COMPLEXITY EXAMPLES FOR THIRD GRADE

## Third Grade Mathematics Standards: Operations and Algebraic Thinking

AK Grade-Level Clusters	AK-DLM Essential Elements	Instructional Examples
Represent and solve problems involving multiplication and division.	l .	Students will: EE3.OA.1-2. Use repeated addition to find the total number of objects arranged in a square or rectangular array. Ex. Using tiles in a template, identify the total number of tiles by adding the tiles in the template.
<b>3.OA.1.</b> Interpret products of whole numbers, e.g., interpret 5 × 7 as the total number of objects in 5 groups of 7 objects each. For example, describe a context in which a total number of objects can be expressed as 5 × 7.		1 1 1 1 1 1 1 1 1 1 3 + 3 + 3 = 9  Ex. Fill space of squares and rectangles with 1-inch tiles, add tiles in rows
3.OA.2. Interpret whole-number quotients of whole numbers (e.g., interpret 56 ÷ 8 as the number of objects in each share when 56 objects are partitioned equally into 8 shares, or as a number of shares when 56 objects are partitioned into equal shares of 8 objects each). For example, describe a context in which a number of shares or a		or columns to determine total number of tiles it takes to fill the shape (square/rectangle).  Ex. Use an abacus to find the total.  Students will:  EE3.OA.1-2. Use repeated addition and equal groups to find the total number of objects to find the sum.  Ex. Two birds + two birds + two birds = six birds.  Ex. Given a repeated addition number sentence, use a number line to find the sum.  3 + 3 + 3 = 9
number of groups can be		Students will:

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expressed as 56 ÷ 8.		EE3.OA.1-2. Use addition to find the total number of objects.  Ex. Three apples + four apples = six apples.  Ex. Add to find the total number of stars.  Ex. Skip count by twos to tell how many.  Students will:  EE3.OA.1-2. Identify which group has more or less when objects are added or taken away.  Ex. When an object is added to a group of three, "Is this more?" and "Is this less?"  Ex. When an object is taken from a group of three, "Is this more?" and "Is this less?"
<b>3.0A.4.</b> Determine the unknown whole number in a multiplication or division equation relating three whole numbers. For example, determine the unknown number that	<b>EE3.OA.4.</b> Solve addition and subtraction problems when result is unknown with number 0-30.	Students will: EE3.OA.4. Solve addition and subtraction problems when any number in the problem is unknown (result, start, change, difference) with numbers to 50. Ex. Using base-10 pieces, add and subtract two-digit numbers to find the sum and the difference. Ex. Use pictures of numbers to add and subtract two-digit numbers to find

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makes the equation true in each of the equations $8 \times ?$ = $48$ , $5 = _ \div 3, 6 \times 6 = ?$		the sum and the difference.
		Students will:
		<b>EE3.OA.4.</b> Solve addition and subtraction problems when result is
		unknown with number 0-30.
		Ex. Using base-10 pieces or counters, add and subtract.
		Ex. Use a 100s chart to find the sum or difference of given problems.
		Ex. Use count on strategies to add (e.g., When asked what is 5 + 2, the
		student says 5 6 7).
		Students will:
		<b>EE3.OA.4.</b> Solve addition and subtraction problems with numbers 0-10.
		Ex. Use counters to add and subtract.
		Ex. Use number lines to add or subtract.
		T
		4+3=7
		Ex. Match the symbol to more or less than.
		Ex. Add one to a number by indicating the next number when asked (e.g.,
		when the teacher says 3, 4, 5, the student says 6).
		Students will:
		<b>EE3.OA.4.</b> Identify numbers 1 to 9.
		Ex .Given a set of five, match it to the number.

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		Ex .Given a set of three, identify the number of objects on number lines.
Understand properties of multiplication and the relationship between multiplication and division.		

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Solve problems involving the four operations, and identify and explain patterns in arithmetic.	<b>EE3.OA.8.</b> Solve one-step real-world problems using addition or subtraction within 20.	Students will:  EE3.OA.8. Add to solve real world one-step story problems with sums up to 50 using various problem-solving models.  Ex. Solve by adding (e.g. "There are 25 birds in a tree and 10 more joined them. How many birds are in a tree?").
<b>3.OA.8.</b> Solve two-step word problems using the four operations. Represent		Ex. Solve by adding (e.g., "I have 15 snacks on the cart and 25 snacks in the cupboard, how many snacks do I have all together?").  Ex. Solve by adding (e.g., "Add the pencils in two boxes and tell how many

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these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding. 9		pencils we have").  Students will:  EE3.OA.8. Add to solve real-world one-step story problems from 0-30. Represent the problem in pictures or with objects.  Ex. Solve by adding (e.g., "Here are 10 pencils. We need 10 more for each person to get a pencil. How many will we need in all?")  Ex. Solve by adding (e.g., "Connie had five marbles. Juan gave her eight more marbles. How many marbles does Connie have all together?")  Ex. Solve by adding (e.g., "Add the crayons in these two boxes and show me how many we have in all.")  Students will:  EE3.OA.8. Add to solve word problems identified through symbol representation.  Ex. Complete word problems that have pictures rather than words.  Ex. Solve by adding (e.g., "There are three ducks in the pond, two more joined. How many ducks are in the pond?" [picture representation]).  Students will:  EE3.OA.8. Identify the object(s) that appear in a real-world one-step story
		problem.  Ex. Given a simple word problem and asked "What is the problem about?" point to an object from a choice of two that represents what the problem was about (e.g., box, toy).  Ex. Indicate which object a word problem is about from an array of two choices.
<b>3.0A.9.</b> Identify arithmetic	EE3.OA.9. Identify	Students will:

<sup>&</sup>lt;sup>9</sup> This standard is limited to problems posed with whole numbers and having whole-number answers; students should know how to perform operations in the conventional order when there are no parentheses to specify a particular order.

AK Grade-Level Clusters	AK-DLM Essential Elements	Instructional Examples
patterns (including patterns	arithmetic patterns.	EE3.OA.9. Complete a complex arithmetic pattern.
in the addition table or		Ex. Complete the pattern using more than two numbers (i.e., A, B, C, A, B,
multiplication table), and		C).
explain them using		Ex. Using a 100s number chart, complete the pattern identified.
properties of operations.		
For example, observe that 4		Students will:
times a number is always		EE3.OA.9. Identify arithmetic patterns.
even, and explain why 4		Ex. When provided arithmetic patterns on a 100s chart, identify the next
times a number can be		number in the pattern.
decomposed into two equal		Ex. When given two number stamps, stamp an arithmetic pattern.
addends.		
		Students will:
		EE3.OA.9. Identify a pattern.
		Ex. Make pattern jumps on a number line.
		Ex. Sing songs and identify the pattern in the song.
		Students will:
		EE3.OA.9. Follow patterns.
		Ex. Sing "Head, Shoulders, Knees, and Toes" and mimic the pattern.
		Ex. Using tactile objects (fur, sand, sand, fur) in a pattern, repeat the
		pattern.
		Ex. Using manipulatives, mimic the teacher to create a pattern.

Third Grade Mathematics Standards: Number and Operations in Base Ten

	AK Grade-Level Clusters	AK-DLM Essential Elements	Instructional Examples
3.NBT.1. Use place value understanding to round whole numbers to the nearest 10 or 100.  Ex. Given a number line separated into tens (0-10, 10-20, etc.), stand on number and identify the 10 that is closer.  Students will:  EX. Given a number line separated into tens (0-10, 10-20, etc.), stand on number and identify the 10 that is closer.  Students will:  EE3.NBT.1. Identify the two 10s a number comes in between on a number (numbers 0-30).	understanding and properties of operations to perform multi-digit arithmetic. 10  3.NBT.1. Use place value understanding to round whole numbers to the	numbers (10, 20, 30) as benchmarks to demonstrate	EE3.NBT.1. Identify the two 10s a number comes in between and tell which is closest (numbers 0-50).  Ex. Use a color beaded number line to identify the number and round to the closest 10.  Ex. Given a number line separated into tens (0-10, 10-20, etc.), stand on a number and identify the 10 that is closer.  Students will:  EE3.NBT.1. Identify the two 10s a number comes in between on a number line (numbers 0-30).  Ex. Use a color beaded number line to identify the two 10s a number falls between.  Ex. Given the number 14, they would identify 10 and 20.  O 1 2 3 4 5 6 7 8 9 10  10 11 12 13 14 15 16 17 18 19 20  20 21 22 23 24 25 25 27 28 29 30  Students will:  EE3.NBT.1. Identify tens on a number line.  Ex. Given a number line, circle the tens.  Ex. Stand on a number chart on 10, 20, 30, etc.

<sup>&</sup>lt;sup>10</sup> A range of algorithms may be used.

AK Grade-Level Clusters	AK-DLM Essential Elements	Instructional Examples
		Ex. Point to any number from one to three on a number line. Ex. Participate in a cake walk. When the music stops, look to see if they are on the number that is called out. Ex. Identify a number when point to or presented on a card. Ex. Given a number from one to three, point to the number symbol.
3.NBT.2. Fluently add and subtract within 1000 using strategies and algorithms based on place value, properties of operations, and/or the relationship between addition and subtraction.	EE3.NBT.2. Demonstrate understanding of place value to tens.	Students will:  EE3.NBT.2. Identify place value to 50.  Ex. Build numbers with place value pieces.  Ex. Identify the number in the ones and tens place value (e.g., the price of an item).  Ex. Write the number in expanded form – 43 = 40 + 3.  Students will:  EE3.NBT.2. Identify place value to tens.  Ex. When given two-digit number cards, identify the number in the tens place value.  Ex. When given a group of 10 frame models, arrange and count the value of the number.  I saw three groups of 10 and five extras, so three groups of 10 = 30 and 5 more makes 35.  Students will:  EE3.NBT.2. Count to 10 using one-to-one correspondence.  Ex. Given a bag of Skittles, pull 10 Skittles out of the bag.  Ex. Select a domino and tell what number the dots represent.  Ex. Shown a set of 10 objects, create a duplicate collection.  Ex. Given a container of pennies, count out 10 from the container.

AK Grade-Level Clusters	AK-DLM Essential Elements	Instructional Examples
		Students will: EE3.NBT.2. Identify more or less. Ex. Given two collections of objects (group of 10, group of 20), indicate, "Which has more?" Ex. Given math manipulatives representing a single unit and multiple units, point to the multiple unit representation when asked "which is more?"
<b>3.NBT.3.</b> Multiply one-digit whole numbers by multiples of 10 in the range 10-90 (e.g., 9 × 80, 5 × 60) using strategies based on place value and properties of operations.	using models such as objects, base ten blocks,	Students will: EE3.NBT.3. Compare the value of money based on place value. Ex. Use money (dimes and pennies) to represent place value. Ex. Given 15 pennies, create a one group of 10 and a group of five ones.  Students will: EE3.NBT.3. Count by tens using money. Ex. Given three dimes, count by 10 to determine total. Ex. Given five dimes, count by 10 to determine total.
		Students will: EE3.NBT.3. Identify whole numbers to 10. Ex. Given sets of 10 pennies, pair with numbers. Ex. Given sets of 10 pennies, pair with dimes.  Students will: EE3.NBT.3. Count pennies to 10.

Third Grade Mathematics Standards: Number and Operations—Fractions<sup>11</sup>

AK Grade-Level Clusters	AK-DLM Essential Elements	Instructional Examples
Develop understanding of	EE3.NF.1-3. Differentiate a	Students will:
fractions as numbers.	fractional part from a	<b>EE3.NF.1-3.</b> Identify halves or fourths as related to the whole.
	whole.	Ex. Identify pictures or objects that are split into fourths.
<b>3.NF.1.</b> Understand a		Ex. Fold a square piece of paper into four equal parts and identify it as four
fraction 1/b as the quantity		parts of a whole.
formed by 1 part when a		Ex. Complete a picture of half an object with the other half to make the
whole is partitioned into b		whole.
equal parts; understand a		Ex. Given a set of pictures, color a half of each whole.
fraction a/b as the quantity		Ex. Shown four halves, assemble them into two wholes and state the
formed by <i>a</i> parts of size		number of wholes.
1/b.		
		Students will:
3.NF.2. Understand a		<b>EE3.NF.1-3.</b> Differentiate a fractional part from a whole.
fraction as a number on		Ex. Sort pictures of whole objects and parts into the appropriate category.
the number line; represent		Ex. Use a variety of real-world objects (pizza, segmented chocolate bar,
fractions on a number line		etc.) to demonstrate that each piece represents a part of the whole.
diagram.		Ex. Shown four halves, assemble them into two wholes.
f Represent a fraction		
1/b on a number line		Students will:
diagram by defining the		<b>EE3.NF.1-3.</b> Recognize that fractions are part of a whole.
interval from 0 to 1 as		Ex. Using a self-sticking non-adhesive shape, take apart and put together
the whole and		fractional parts of a whole.
partitioning it into b		Ex. Utilize wooden shapes, separate into halves and put back together into
equal parts. Recognize		whole.
that each part has size		
1/b and that the		Students will:
endpoint of the part		EE3.NF.1-3. Identify a whole.
based at 0 locates the		Ex. Given a part of and the whole real-world object (pizza, segmented

<sup>11</sup> Grade 3 expectations in this domain are limited to fractions with denominators 2, 3, 4, 6, 8.

AK Grade-Level Clusters	AK-DLM Essential Elements	Instructional Examples
number 1/b on the		chocolate bar, segmented toy pie, etc.), point to the whole.
number line.		Ex. Given a puzzle with missing pieces and a puzzle with complete pieces,
f Represent a fraction		identify the whole.
<i>a/b</i> on a number line		
diagram by marking off		
a lengths 1/b from 0.		
Recognize that the		
resulting interval has		
size <i>a/b</i> and that its		
endpoint locates the		
number <i>a/b</i> on the		
number line.		
<b>3.NF.3.</b> Explain equivalence	,	
of fractions in special		
cases, and compare		
fractions by reasoning		
about their size.		
f Understand two		
fractions as equivalent		
(equal) if they are the		
same size, or the same		
point on a number line.		
f Recognize and		
generate simple		
equivalent fractions,		
(e.g., 1/2 = 2/4, 4/6 =		
2/3). Explain why the		
fractions are		
equivalent, e.g., by		
using a visual fraction		
model.		
f Express whole numbers		

AK Grade-Level Clusters	AK-DLM Essential Elements	Instructional Examples
as fractions, and		
recognize fractions that		
are equivalent to whole		
numbers. <i>Examples:</i>		
Express 3 in the form 3		
= 3/1; recognize that		
6/1 = 6; locate 4/4 and		
1 at the same point of a		
number line diagram.		
f Compare two fractions		
with the same		
numerator or the same		
denominator by		
reasoning about their		
size. Recognize that		
comparisons are valid		
only when the two		
fractions refer to the		
same whole. Record		
the results of		
comparisons with the		
symbols >, =, or <, and		
justify the conclusions,		
e.g., by using a visual		
fraction model.		

Third Grade Mathematics Standards: Measurement and Data

AK Grade-Level Clusters	AK-DLM Essential Elements	Instructional Examples
Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects.  3.MD.1. Tell and write time to the nearest minute and measure time intervals in minutes. Solve word problems involving addition and subtraction of time intervals in minutes, e.g., by representing the problem on a number line diagram.	EE3.MD.1. Tell time to the hour on a digital clock.	Students will:  EE3.MD.1. Tell time to the half hour using a digital clock.  Ex. Look at a digital clock and read the time.  Ex. When looking at a schedule, identify the hour.  Students will:  EE3.MD.1. Tell time to the hour on a digital clock.  Ex. Given a time written to the hour, write the digital time.  Ex. Identify the time of a digital clock that is set to the hour.  Ex. Given a time on a digital clock, say the time to the hour.  Students will:  EE3.MD.1. Identify which is the hour on a digital clock.  Ex. Relate the hour with the time on their daily schedule.  Ex. Given cards showing digital clocks (with one clock having the hour circled and one clock with the minutes circled), indicate the clock with the hour circled.  Students will:  EE3.MD.1. Differentiate a digital clock from other measurement tools as a tool for telling time.  Ex. Given a digital clock and a measuring cup, identify the clock for telling time.  Ex. Asked, "How do we know when it is time to go to lunch?", indicate a
		clock.
<b>3.MD.2.</b> Measure and estimate liquid volumes and masses of objects using standard units of	<b>EE3.MD.2.</b> Identify the appropriate measurement tool to solve one-step word problems involving	Students will: EE3.MD.2. Measure liquid volumes and masses of objects using standard units of grams (g), kilograms (kg), and liters (l). Ex. Measure out items in a recipe.

mass and volume.

AK Grade-Level Clusters	AK-DLM Essential Elements	Instructional Examples
grams (g), kilograms (kg),		Ex. Compare the mass of two items using a two-pan balance (balance
and liters (I). 12 Add, subtract, multiply, or divide to solve one-step word		scale). Ex. Given a standard unit scale, weigh 10 grams of sand.
problems involving masses		Students will:
or volumes that are given		<b>EE3.MD.2.</b> Identify standard units of measure for mass and liquid.
in the same units, e.g., by		Ex. Sort the following real-world items as being measured by grams or
using drawings (such as a beaker with a		liters when shown the measurement tools (apple measured in grams and juice in liters).
measurement scale) to		Ex. When shown pictures of the tool, identify what would be measured
represent the problem. 13		grams or liters.
		Students will:
	,	<b>EE3.MD.2.</b> Select the appropriate tool to measure a solid or a liquid.
		Ex. When provided two pictures, one showing a ruler and one showing a scale, identify which tool measures mass.
		Ex. When provided two tools, a measuring cup and a scale, identify which
		tool measures liquid.
		Ex. Select from a variety of tools the appropriate tool to measure either mass or volume.
		Ex. Given a rock and a glass of water, identify which would be measured
		using a measuring cup.
		Students will:
		<b>EE3.MD.2.</b> Determine if an object is a solid and a liquid.
		Ex. Place objects from the room into the appropriate measurement
		category (solid or liquid).
		Ex. Given a rock and a glass of water, identify which is solid.
Represent and interpret	EE3.MD.3. Use picture or	Students will:

Excludes compound units such as cm<sup>3</sup> and finding the geometric volume of a container.

Excludes multiplicative comparison problems (problems involving notions of "times as much."

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data.	bar graph data to answer	EE3.MD.3. Interpret data to answer questions.
	questions about data.	Ex. Identify how they know there were no rainy days that week based on
<b>3.MD.3.</b> Draw a scaled		the chart.
picture graph and a scaled		Ex. State two facts about the data on a graph.
bar graph to represent a		
data set with several		Students will:
categories. Solve one- and		<b>EE3.MD.3.</b> Use picture or bar graph data to answer questions about data.
two-step "how many		Ex. Identify from a picture or bar graph how many students in the class
more" and "how many		were identified as wearing blue shirts.
less" problems using		Ex. State how many days were sunny as charted on a weather chart.
information presented in		
scaled bar graphs. For		Students will:
example, draw a bar graph		EE3.MD.3. Organize data.
in which each square in the	,	Ex. Take data collected from the lunch choices and place data into
bar graph might represent		appropriate categories.
5 pets.		Ex. Place data on a chart to represent the data collected.
		Students will:
		EE3.MD.3. Collect data.
		Ex. Using two posters, one for the students with brown hair, and one for
		the students with "yellow" hair, place their picture on the poster board
		that indicates what color hair they have.
		Ex. Use a daily survey to collect data on different interest.
3.MD.4. Generate	<b>EE3.MD.4.</b> Measure length	Students will:
measurement data by	of objects using standard	<b>EE3.MD.4.</b> Measure length of objects using standard tools, such as rulers,
measuring lengths using	tools, such as rulers,	yardsticks, and meter sticks, by repeating the use of the measurement
rulers marked with halves	yardsticks, and meter	tool/unit.
and fourths of an inch.	sticks.	Ex. Given a row of three tile squares on the floor, measure the length of
Show the data by making a		the tiles by repeating a ruler end to end.
line plot, where the		Ex. Given a hallway from the classroom to the bathroom across the hall,
horizontal scale is marked		measure the distance with a yardstick by repeating the yardstick from end
off in appropriate units—		to end.
whole numbers, halves, or		Ex. Give one ruler length of yarn to each classmate for a project.

AK Grade-Level Clusters	AK-DLM Essential Elements	Instructional Examples
quarters.		İ
<u> </u>		Students will:
		<b>EE3.MD.4.</b> Measure length of objects using standard tools, such as rulers, yardsticks, and meter sticks.
		Ex. Given an object and a measuring tool, use the tool to mark the length
		of the object.
		Ex. Given a ruler and snowfall, mark the depth of the snow with a ruler.
		Ex. Given a yardstick, measure different lengths or widths of the room and record the measurement.
		Students will:
		<b>EE3.MD.4.</b> Measure length with non-standard units of measurement.
		Ex. Identify the length of items in the classroom using a yardstick end-to-
		end and record as number of yardsticks.
		Ex. When provided two non-standard measuring units, identify which one
		is most appropriate for what is to be measured (pencil or long stick to measure the length of the classroom).
		Students will:
		<b>EE3.MD.4.</b> Place a standard measuring tool where one would begin to
		measure the length of an object.
		Ex. Given a string, place the ruler at the end of the string where one would begin a measure.
		Ex. Shown a picture of a boy standing against a height measure, and asked
		where you would look to find the boy's height, indicate the top of the
		boy's head.
		Ex. Given a bookshelf and a ruler, place the ruler on the lower left corner
		of the bookshelf front. (Anything with a definite lower left edge that will
		not allow the student to go beyond it will work.)
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## Third Grade Mathematics Standards: Geometry

AK Grade-Level Clusters	AK-DLM Essential Elements	Instructional Examples
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AK Grade-Level Clusters	AK-DLM Essential Elements	Instructional Examples
Reason with shapes and their attributes.  3.G.1. Understand that shapes in different categories (e.g.,	<b>EE3.G.1.</b> Describe attributes of two-dimensional shapes.	Students will:  DD3.G.1. Identify the shared attributes of shapes in different categories.  Ex. Given a Venn diagram, sort attributes of shapes (e.g., straight edges, curved edges, both).  Ex. Trace the shared attributes of two different shapes.  Students will:
rhombuses, rectangles, and others) may share attributes (e.g., having four sides), and that the shared attributes can define a larger category (e.g., quadrilaterals). Recognize rhombuses, rectangles, and squares as examples of quadrilaterals, and draw examples of quadrilaterals that do not belong to any of these subcategories.		EE3.G.1. Recognize that shapes in different categories can share attributes.  Ex. Shown different shapes answers, "What is the same?"  Ex. Place in the appropriate category shapes with common attributes.  Students will:  EE3.G.1. Sort shapes by attributes.  Ex. Given a sorting map, sort shapes by given attributes.  Ex. Given a sorting map, sort different size same shapes into the same category (e.g., large and small triangle would go in the same category).  Students will:  EE3.G.1. Match shapes (e.g., squares, rectangles, circles, triangles).  Ex. Match shapes to the shape of objects within the classroom.  Ex. Match shapes that are the same.
<b>3.G.2.</b> Partition shapes into parts with equal areas. Express the area of each part as a unit fraction of the whole. For example, partition a shape into 4 parts with equal area, and describe the area of each part as 1/4 of the area of the shape.	<b>EE3.G.2.</b> Recognize that shapes can be partitioned into equal areas.	Students will:  3.G.2. Given shapes with multiple lines of symmetry, will be able to identify equal areas.  Ex. Complete simple tangram puzzles with tangram pieces.  Ex. Identify equal areas on complex shapes (i.e., stars, rectangle cut on the diagonal)

AK Grade-Level Clusters	AK-DLM Essential Elements	Instructional Examples
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		Students will:
		<b>EE3.G.2.</b> Recognize that shapes can be partitioned into equal areas.
		Ex. Given a shape, cut the shape into equal areas.
		Ex. Cut a pizza into equal areas to hand out to students in the class.
		Students will:
		EE3.G.2. Create shapes.
		Ex. Work a pattern block puzzle that results in a shape.
		Ex. Given three small rectangles, rearrange them into a larger rectangle.
		Students will:
		EE3.G.2. Match shapes.
		Ex. Match a picture of a shape, to a shape in the classroom.
		Ex. Match two shapes from an array of three in which one is different.